Locomotive Digital Video Recording System

Maintenance Programs and Practice

SAE/NTSB 2003 Recorder Symposium

Alexandria, Virginia

June 5, 2003



w Loois Help

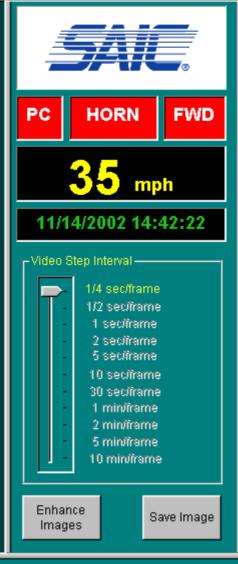
Load Data

c:\Presentation\RV307H_11142002_1437.bin

7 : 11/14/2002 14:41:48 - 14:42:54 = 0h 01m 06s







RV Offline

Unit #307













Start Capture

"RailView" System

• What is a locomotive digital video recording system (LDVRS) or "RailView" system?



















Camera Mounting Location





Camera Mounting Location





System I/O's

- Inputs:
 - Horn
 - Forward, neutral, reverse
 - "PC" (i.e. Emergency brake application)
 - Speed
 - Video
 - Audio
- Outputs:
 - Status indicators



Status Indicators

- System and Trouble Status:
 - L1 Steady Green: Ready to record data
 - L1 Flashing Green: Acquiring data
 - L2 Steady Red: System failure
 - L2 Flashing Red: Reduced system functions
 - L2 Dark: System OK



Status Indicators

- L3 Steady Green: Horn activated
- L4 Steady Green: Reverser thrown forward
- L5 Steady Green: Reverser thrown reverse
- L6 Steady Green: Reverser centered
- L7 Steady Green: PC activated
- L8 Steady Green: Speed input active





Wayne, IL - Derailment 02/21/03 - 6:50 PM

- Direction East
- Speed 42 MPH
- Weather: Cloudy; Temp: 41°
- 2 Units, 32 Cars (34 Total)



Wayne Derailment





Wayne Derailment





Wayne Derailment





Wayne, IL - Derailment

Cost: \$3.25 Million



New Dimension in Derailment Investigation

- Video from the engineer's view
- Distinct audio information

